

# Science and Technology in Occupied Japan Overview on Publication and Censorship of Scientific/Technological Periodicals

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*ii) Atomic Bomb,*

All of numerical data was taken from the  
database before 1<sup>st</sup> of April, 2005

## **Characteristics of Japan's Science and Technology**

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<b>Period</b>	<b>Characteristics</b>
<b>Pre-war</b>	<b>Wealth and Military Power of Nation</b> <b>Catch-up to Western Technology</b> <b>Military-Technocrat Coalition</b>
<b>Occupied</b>	<b>Transition period (Democratization, Non-militarization)</b>
<b>Post-war</b>	<b>Economic Growth</b> <b>Advancement of Basic Science</b> <b>Government-Industrial Complex</b>

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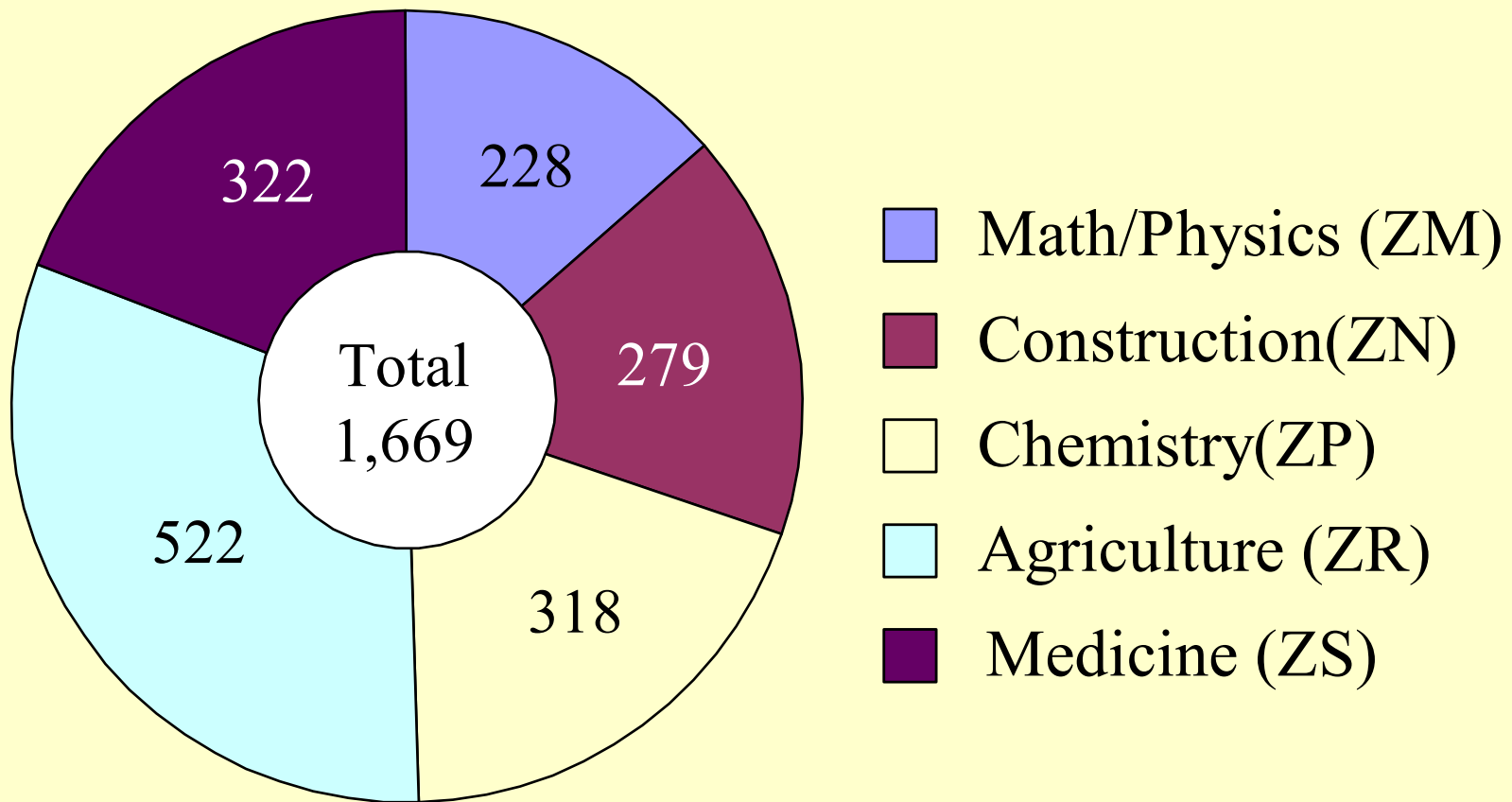
## Collection Rates of Selected Periodicals

Periodical	Collection Rate(%)	Remark
Kagaku-Asahi (科学朝日)	98.9	Tokyo, Commercial
Kagaku-to-Gijutu (科学と技術)	92.9	Sapporo (Local) Others
Kougyou-Kagaku-Zassi (工業化学雑誌)	90.0	Tokyo Scientific Journal
Science (サイエンス)	66.7	Fukuoka (Local) Commercial
Kiku-no-Ishikawa (絹の石川)	50	Toyama (Local) Industry

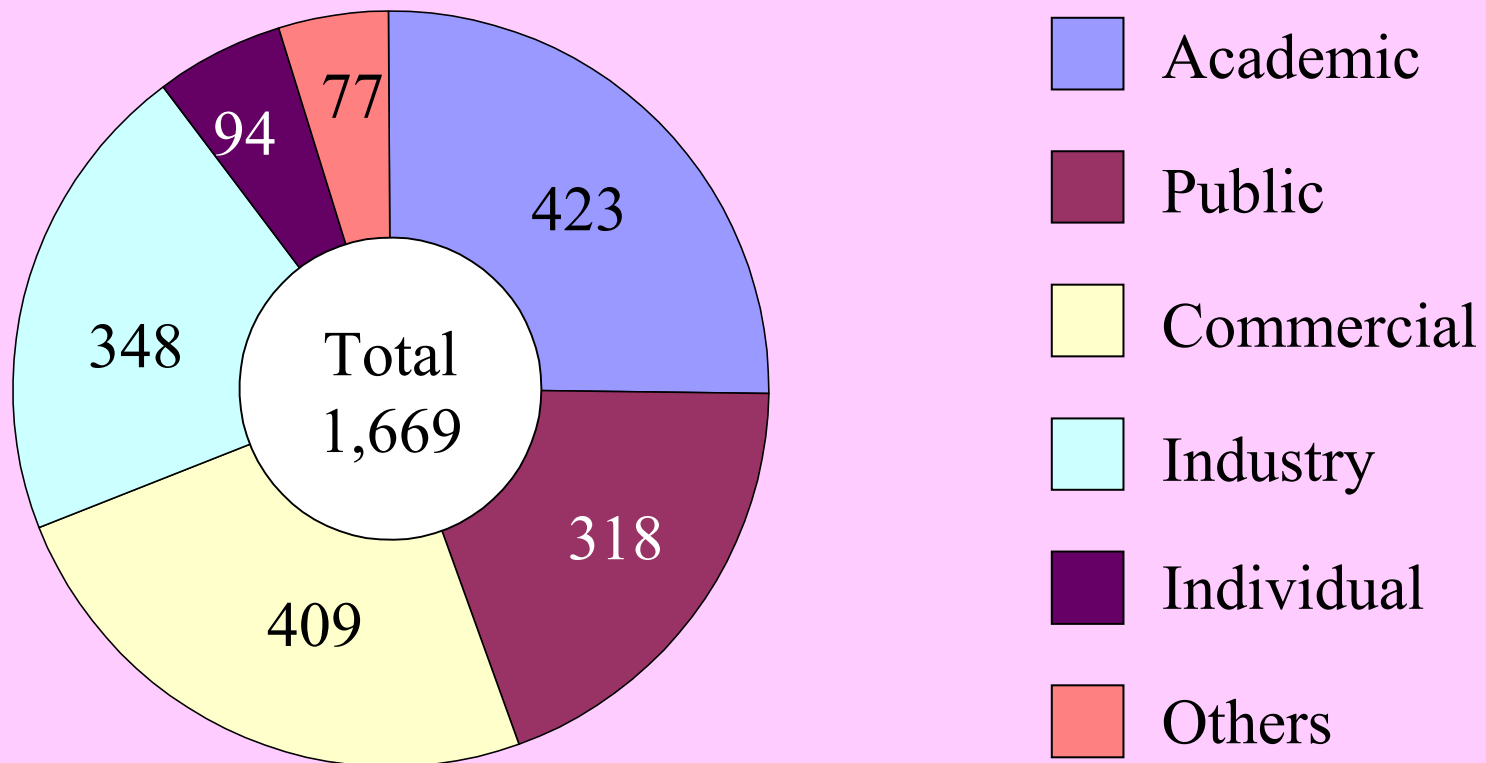
## **Outline of Periodicals and Articles in Science/Technology Genre**

- 1. S/T Genre of the database consists of 1,669 titles and 321,337 articles, which are slightly smaller than those released by NDL**
- 2. Number of articles for each periodical ranges from one to 14,812 and the arithmetic average is 193.**
- 3. The oldest issue of periodical in the database dates back to 1920.**

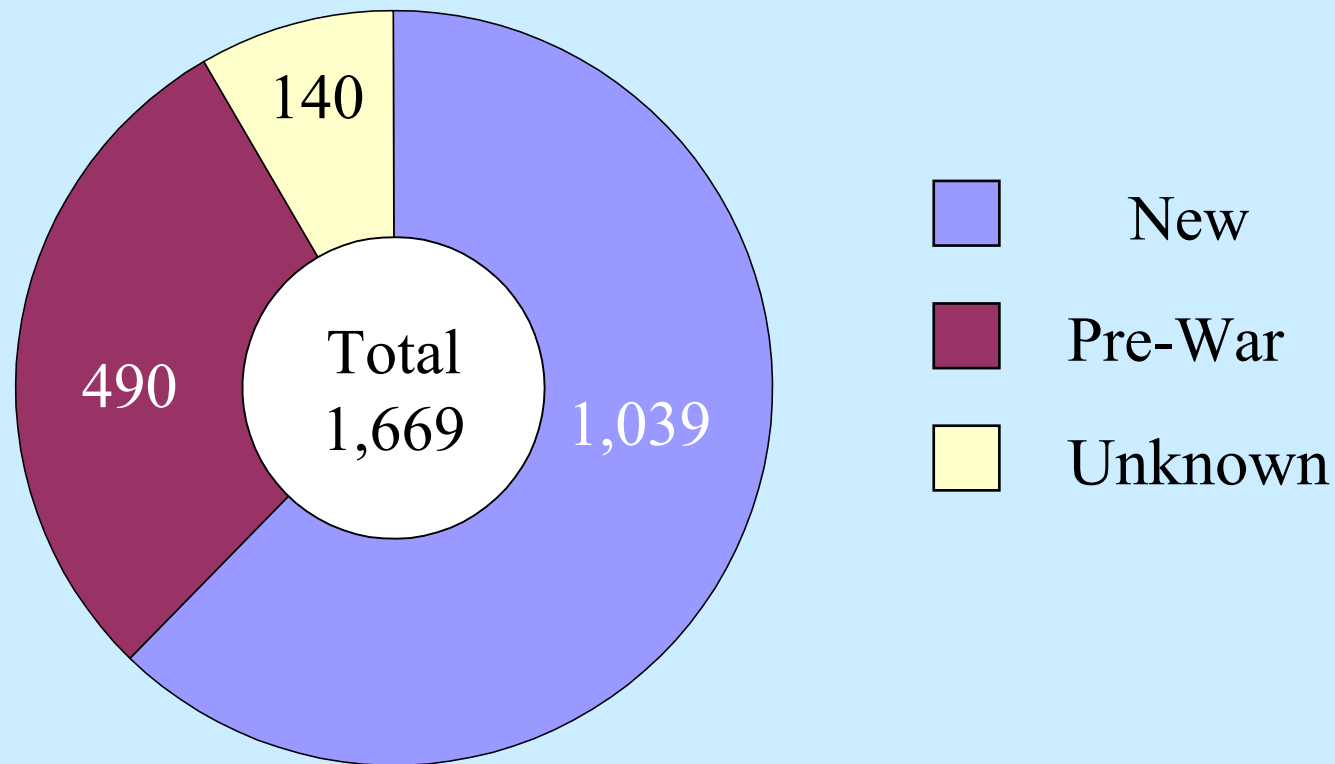
## Classification by the Categories of the Periodicals



# Classification of Periodicals by the Publishers



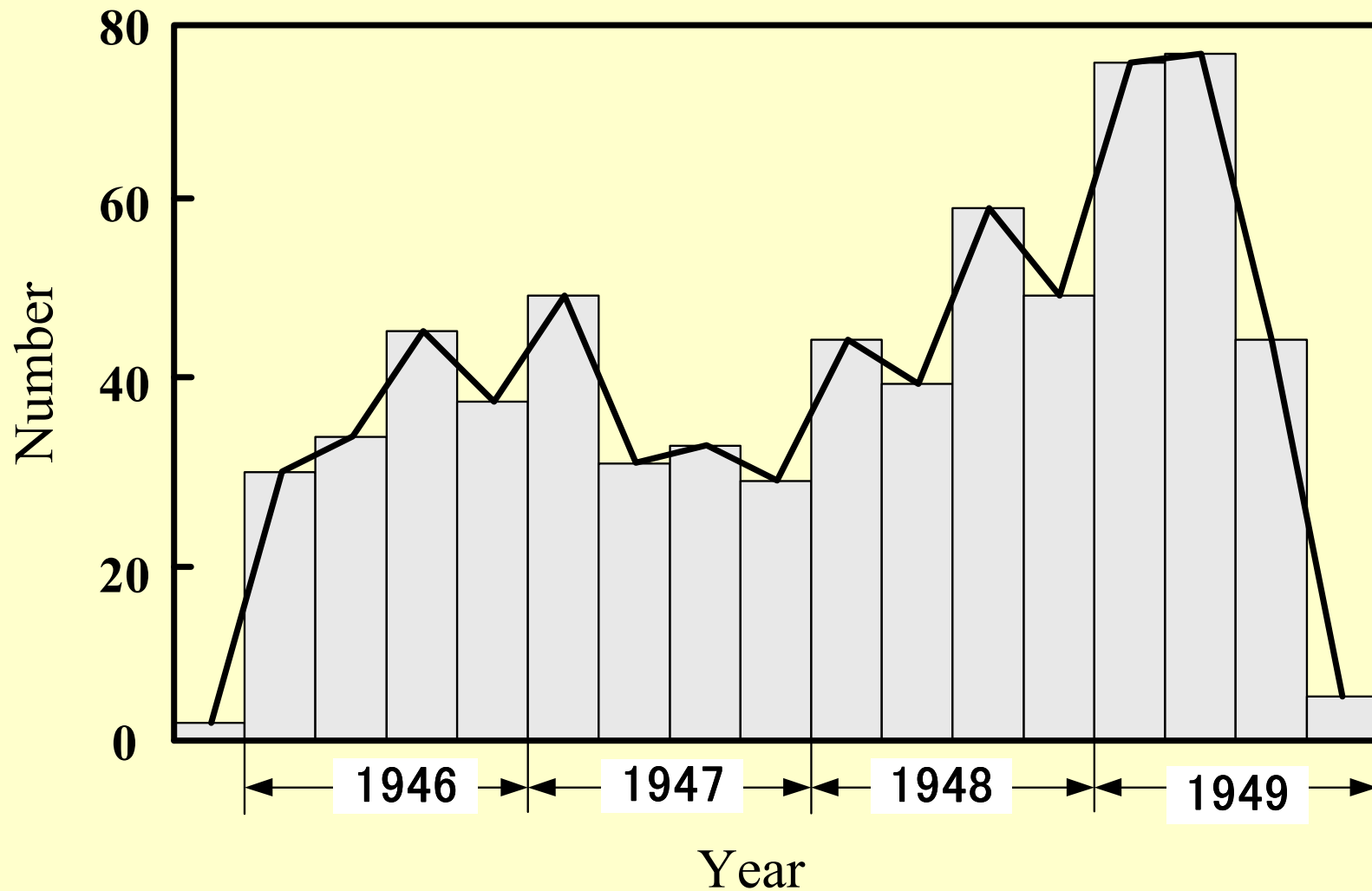
## Classification of Periodicals by the Time First Issue was Launched



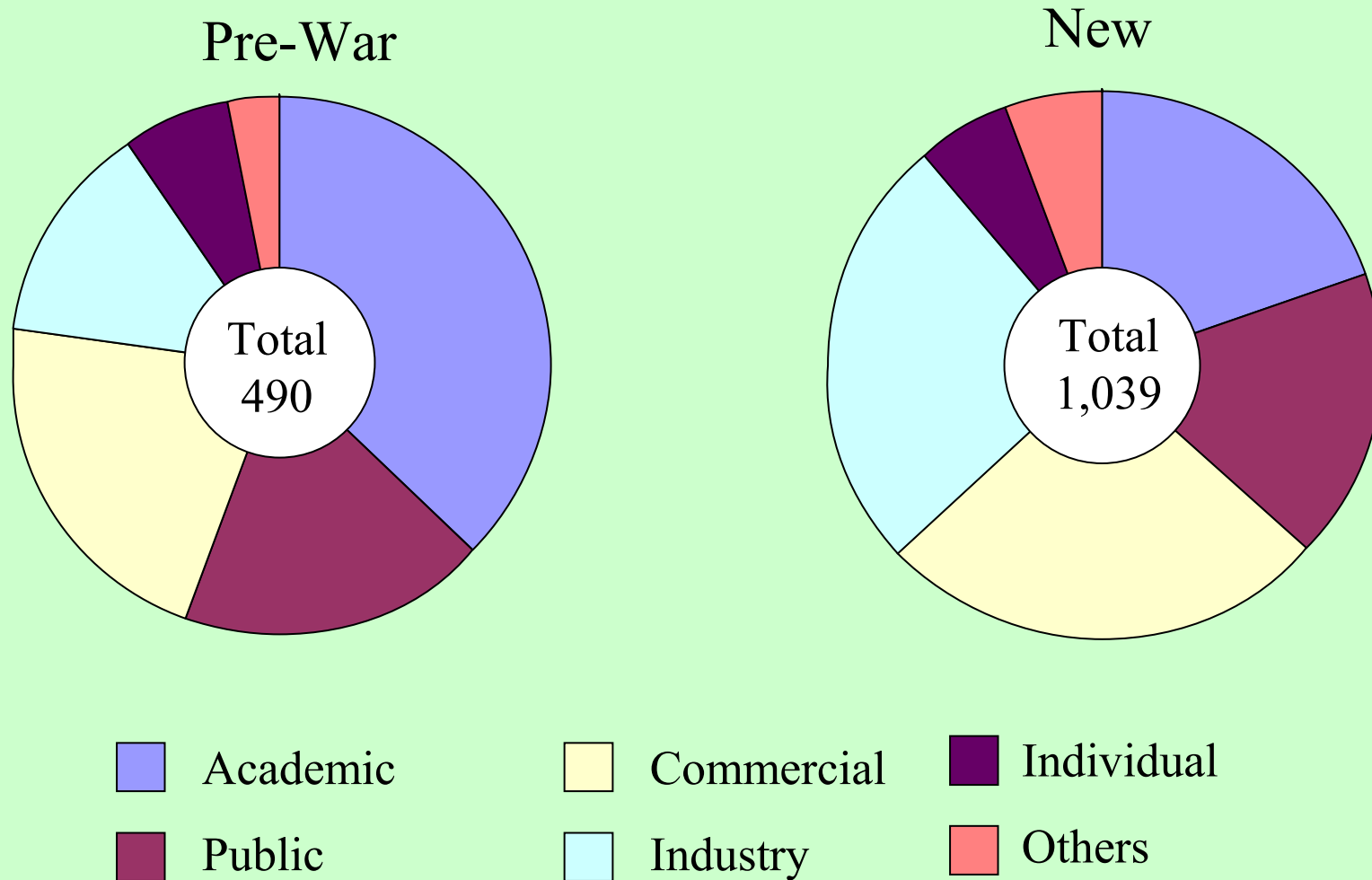
New: First issue of the periodical was launched in occupation period

Pre-war: First issue of the periodical was already published in pre-war period

## Quarterly Series of the Number of First Issue of New Periodicals

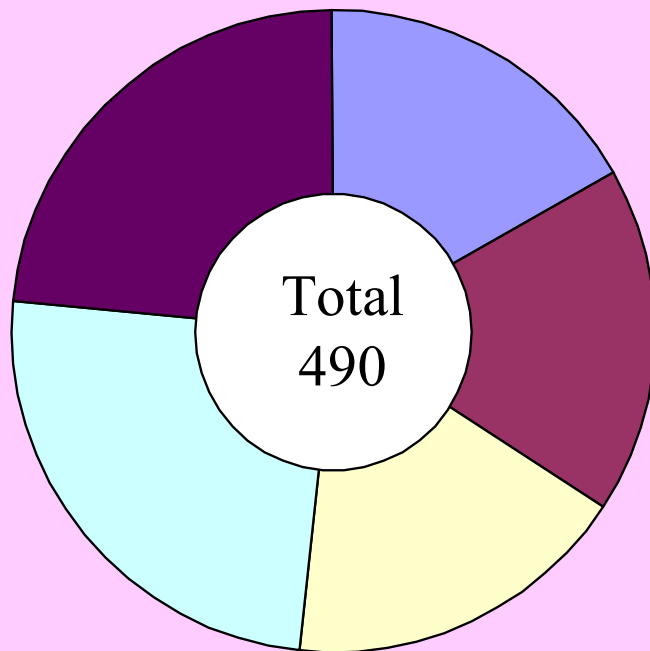


## Comparison of Publishers of New and Pre-war Periodicals

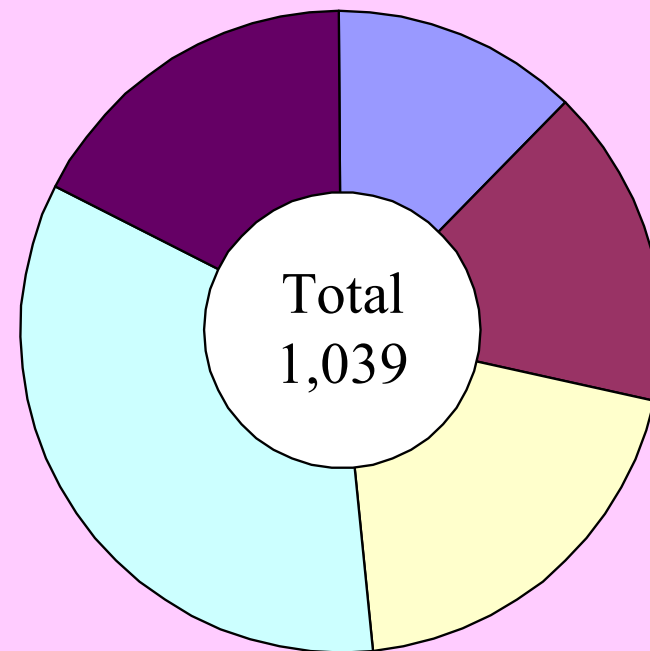


## Classification of New and Pre-war Periodicals by their Category

Pre-War



New



Math/Physics (ZM)

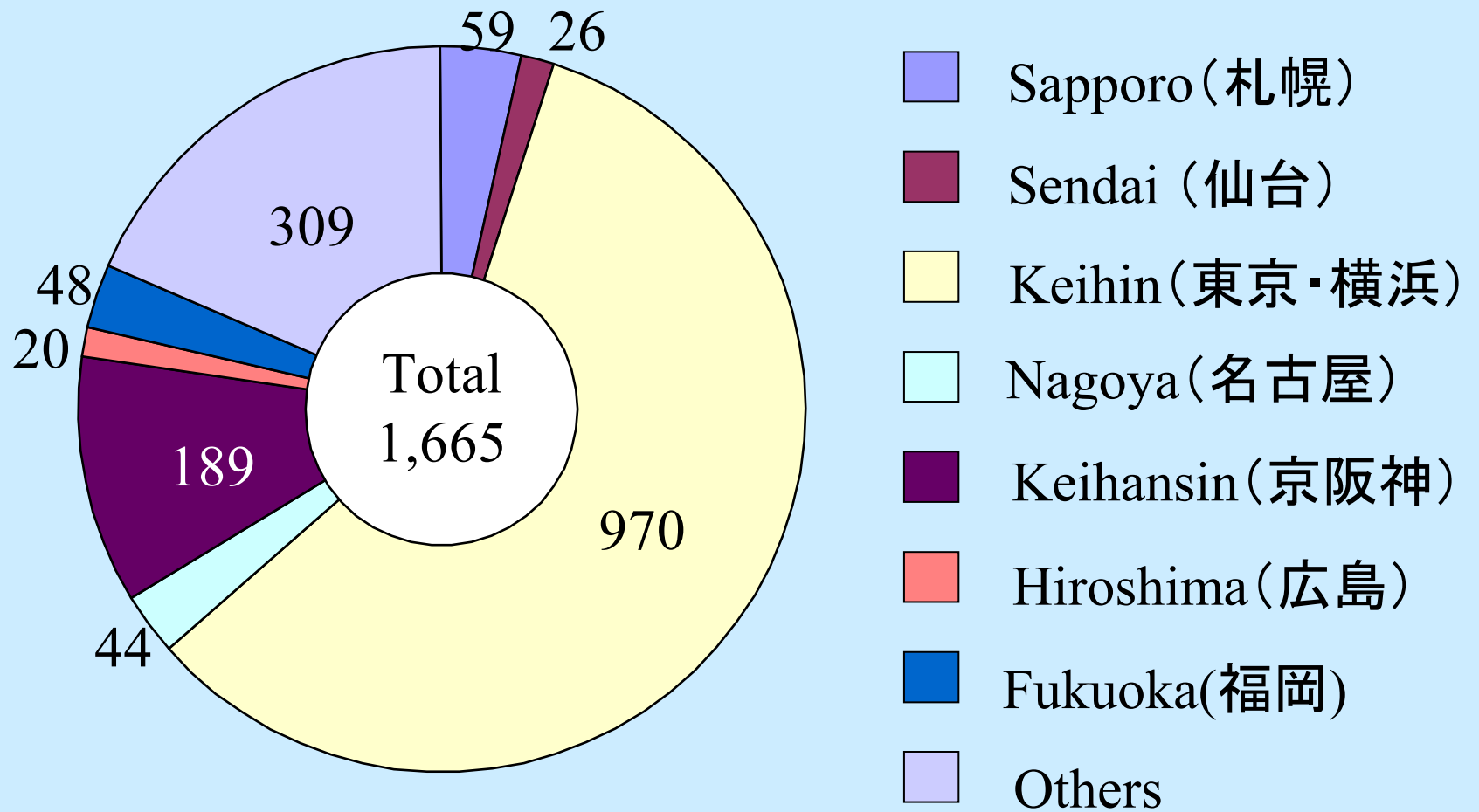
Chemistry (ZP)

Medicine (ZS)

Construction (ZN)

Agriculture (ZR)

## Classification of periodicals by Publishers' Location



## Comparison between Tokyo and Others with respect to New and Continuing Periodicals

Category	<u>Tokyo</u>			<u>Others</u>		
	(New)	(Pre-war)	Total	(New)	(Pre-war)	Total
ZP	114	60	174 (0.60)	20	7	27 (0.10)
ZM	81	63	144 (0.67)	19	5	24 (0.09)
ZN	124	64	182 (0.58)	18	3	21 (0.12)
ZS	104	70	174 (0.46)	38	18	56 (0.32)
ZR	160	70	230 (0.47)	133	30	163 (0.35)

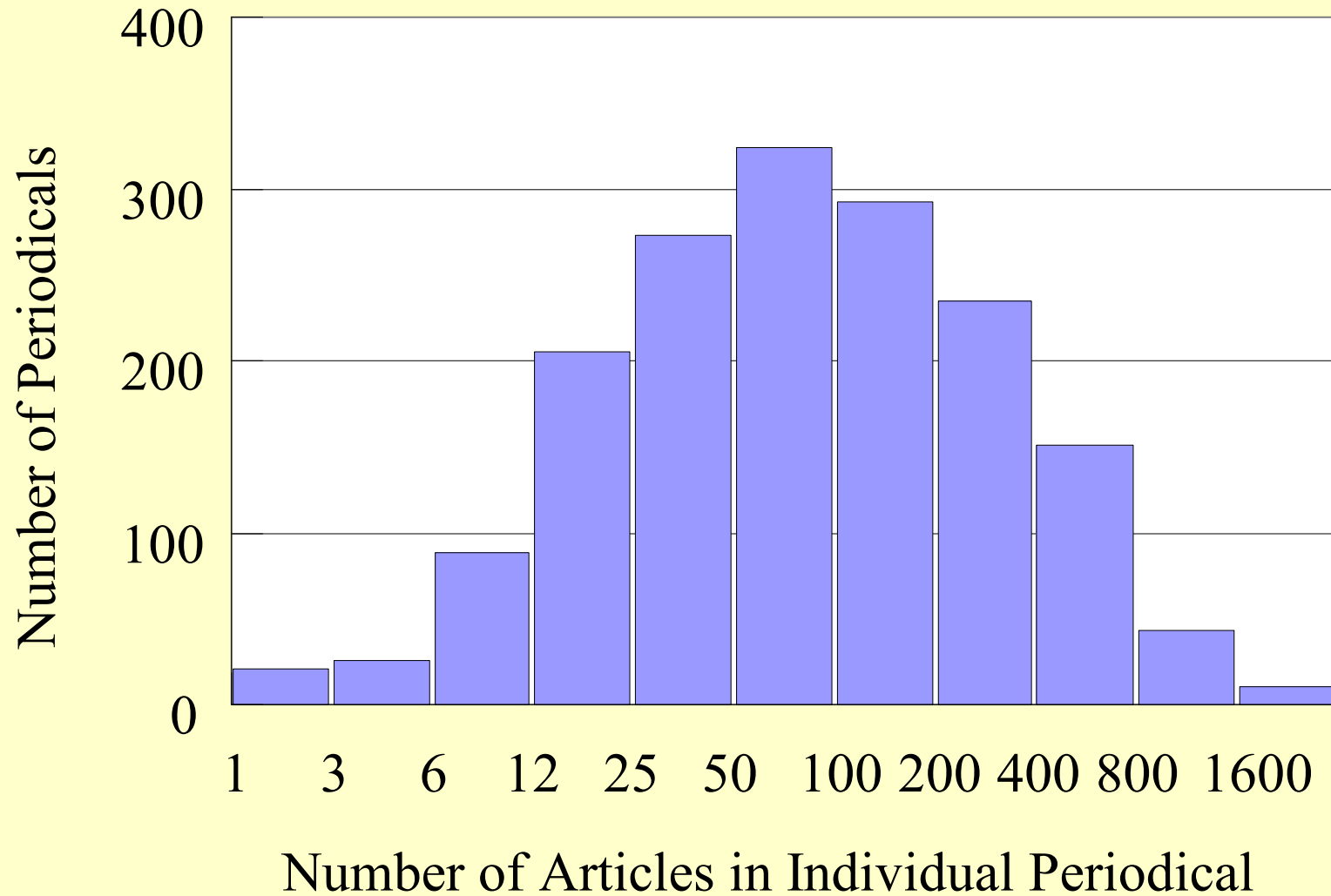
Values in parenthesis express share of Tokyo and local small cities with respect to the number of periodicals.

New Periodical Rate: Ratio of number of new-periodicals and total number of periodicals

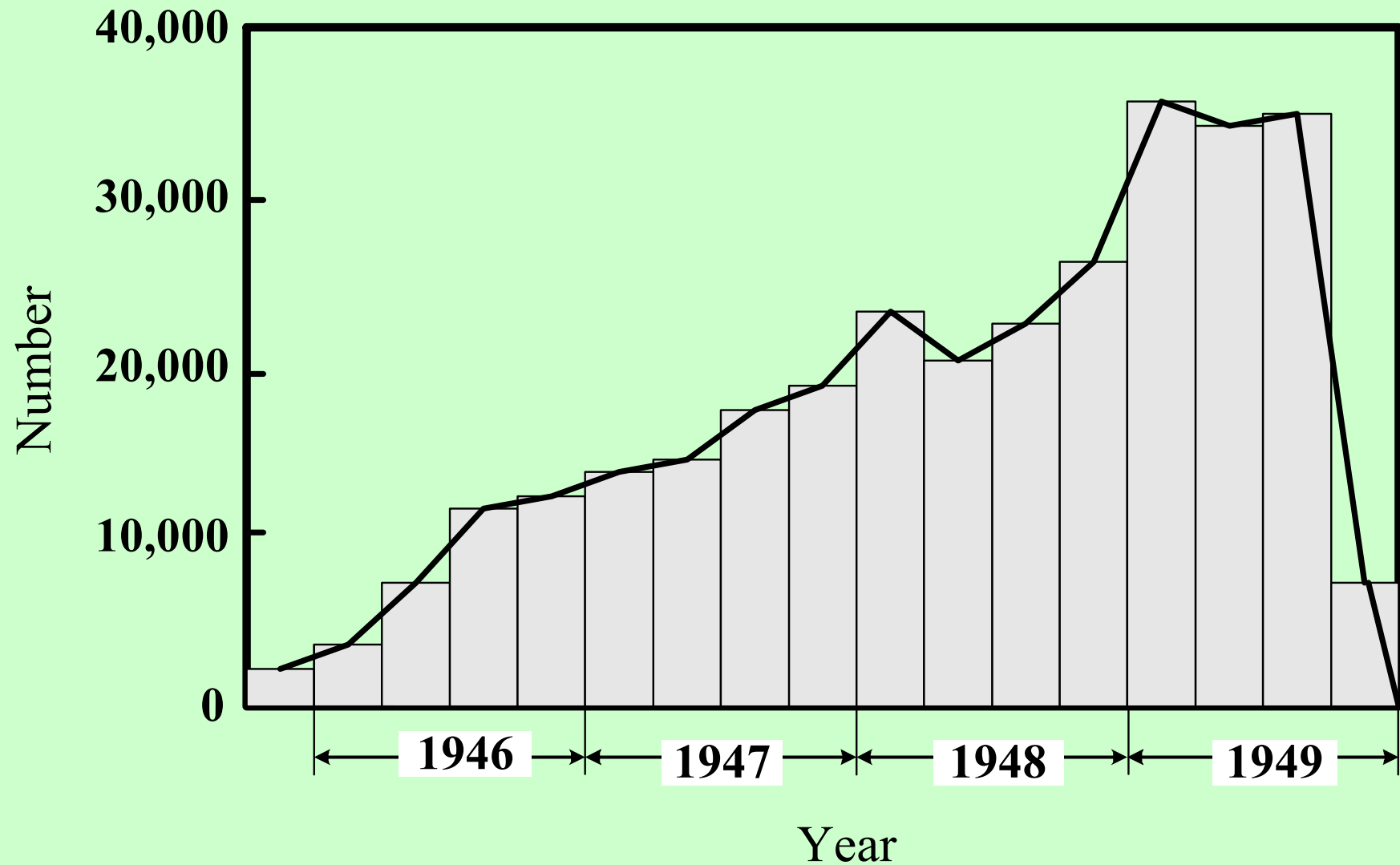
## Summary (1)

1. All of the published journals are not collected in the Database.
2. (i) Number of New-periodicals is more than two times bigger than that of pre-war periodicals.  
(ii) Evolution in number of publication of first issue of periodicals has two peaks in late 1946-early 1947 and around the first-half of 1949.  
(iii) Publication of New-periodicals is noticeable in Agriculture category and in provincial cities

## Distribution of Number of Articles Appeared in Individual Periodical



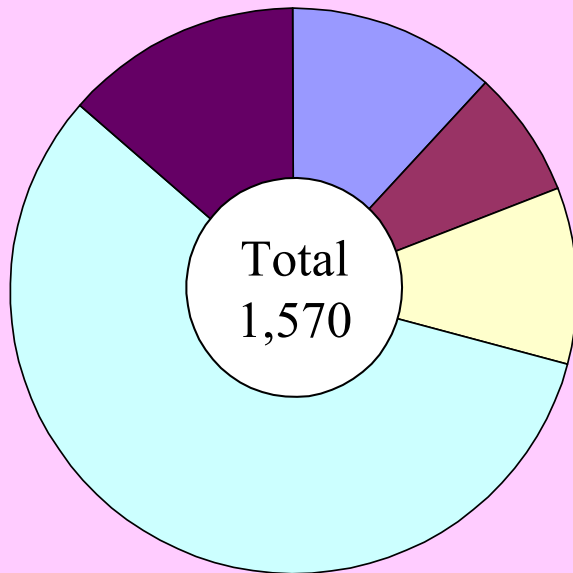
## Quarterly Series of the Number of Articles Appeared in Periodicals



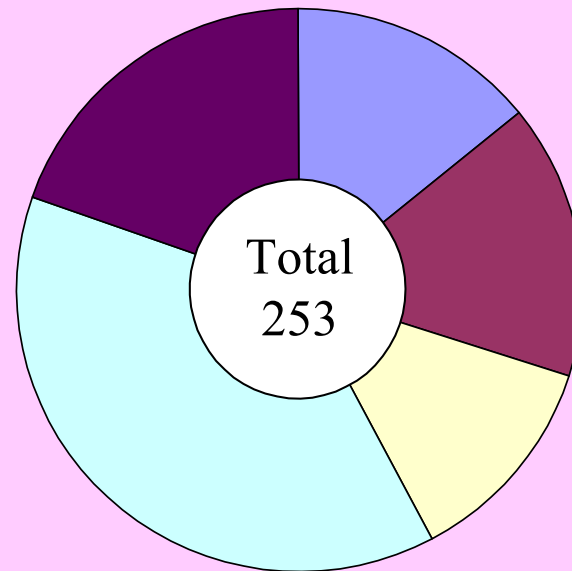
## **Outline of Censorship in Science/Technology Genre**

- 1. Total numbers of censored articles and periodicals including censored articles were 1,570 and 253, respectively.**
- 2. Number of the censored articles per year maximized in 1947, while censored rate decreased year by year.**
- 3. Censored rate in Science/Technology genre (0.347%) was the lowest in all of genres of the database (0.347~3.05%).**
- 4. Any articles was not subjected to substantial disposition**

## Classification of Censored Articles and Periodicals by Category of Periodicals



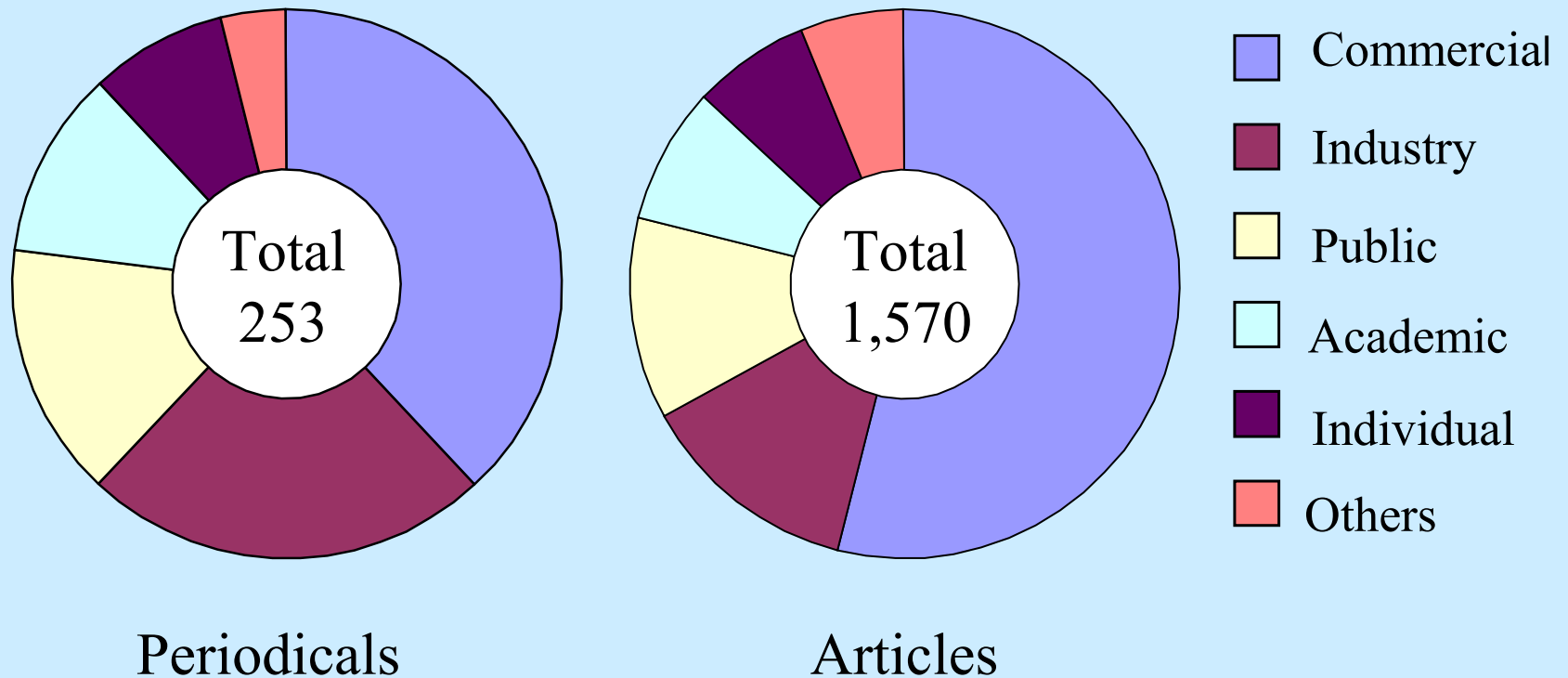
Article



Periodical

- Math/Physics (ZM)
- Construction(ZN)
- Chemistry(ZP)
- Agriculture (ZR)
- Medicine (ZS)

## Classification of Censored Periodical and Article by the Publisher



## Best (Worst?) Five of Periodicals with respect to Censored Rate

No	Title of Periodical	Rate/%	Field
1	Midori(みどり)	100 (27)	ZR
2	Minori(みのり)	86(435)	ZR
3	Nougyou-Yokohama(農業横浜)	60( 35)	ZR
4	Nougaku-Kennkyu(農学研究)	28( 81)	ZR
5	Kagakutogijutu(科学と技術)	19(265)	ZM

Four out of five periodicals belong to Agriculture Genre

Censored Rate = Number of censored articles/Total number of articles

### Best Five of Periodicals Containing Censored Articles

No	Title of Periodical	Number	Category
1	Minori (みのり)	352	ZR
2	Kagaku-to-Gijutu (科学と技術)	51	ZM
3	Nihon-Suisan-Hyoron (日本水産評論)	32	ZR
4	Nougyou-Sekai (農業世界)	32	ZR
5	Raito (ライト)	30	ZR

Four out of five periodicals belong to Agriculture category.

## Articles Dealing with Atomic Bomb

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Keyword	No of Articles	No of Blue Penciled
Genbaku (原爆) (Scientific)	21	1
Atomic bomb (原子爆弾) (Medical)	245	10
Pika-Don (ピカドン)	3	0
<hr/>		
Nuclear weapon (核兵器): 0, Nuclear (核): 6,205 (tuberculosis?結核)		

## Summary (2)

- 3. Number of articles published increases almost exponentially.**
- 4. (i) Percentage of the censored articles is the lowest among all genres of journals.  
(ii) Censored article tended to center on particular journals.**
- 5. (i) There were 269 articles dealing with Atomic Bomb.  
(ii) Only 11 articles had a record of censorship. This rate is fairly large as the articles in Sci/Tech genre**

## Current and Future Studies

1. Detailed discourse analysis on the peaceful use of nuclear power
2. Analysis of the debates on the responsibility of Scientist/Engineer against Pacific War
3. Rationalization of housework based on scientific thinking
4. Scientists' Attitude against of Establishment of Science Council of Japan

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